Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Stantec 1060 Andrew Drive Suite 140 West Chester PA 19380

Report Date: March 21, 2016

Project: MH386 Tank Sampling

Submittal Date: 02/08/2016 Group Number: 1629807 SDG: MHI05 PO Number: MH386 TANK SAMPLING State of Sample Origin: PA

 Client Sample Description
 Lancaster Labs (LL) #

 MH386-8-2' Grab Soil
 8235350

 MH386-9-1' Grab Soil
 8235351

 TB-20160205 Water
 8235352

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

Electronic Copy To Stantec

Attn: Mark Schaeffer

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MH386-8-2' Grab Soil

MH386 Tank Sampling

LL Sample # SW 8235350 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016 14:10 by D Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380

1MH05 SDG#: MHI05-01

Submitted: 02/08/2016 14:32

Reported: 03/21/2016 09:50

CAT No.	Analysis Name		CAS Number	Dry Result	:	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	mg/kg		mg/kg	
10237	Benzene		71-43-2	0.24		0.022	36.76
10237	sec-Butylbenzene		135-98-8	0.099	J	0.044	36.76
10237	tert-Butylbenzene		98-06-6	0.047	J	0.044	36.76
10237	Cyclohexane		110-82-7	0.49		0.044	36.76
10237	1,2-Dichloroethane		107-06-2	N.D.		0.044	36.76
10237	Ethylbenzene		100-41-4	0.21	J	0.044	36.76
10237	n-Hexane		110-54-3	0.52		0.044	36.76
10237	Isopropylbenzene		98-82-8	0.10	J	0.044	36.76
10237	Methyl Tertiary But	yl Ether	1634-04-4	0.89		0.022	36.76
10237	Naphthalene		91-20-3	19		0.44	367.65
10237	Toluene		108-88-3	0.13	J	0.044	36.76
10237	1,2,4-Trimethylbenz	zene	95-63-6	1.7		0.044	36.76
10237	1,3,5-Trimethylbenz	zene	108-67-8	0.60		0.044	36.76
10237	Xylene (Total)		1330-20-7	1.2		0.044	36.76
GC/MS	Semivolatiles	SW-846	8270C	mg/kg		mg/kg	
10728	Acenaphthene		83-32-9	1.4		0.040	10
10728	Anthracene		120-12-7	1.4		0.040	10
10728	Benzo(a)anthracene		56-55-3	0.19	J	0.040	10
10728	Benzo(a)pyrene		50-32-8	0.074	J	0.040	10
10728	Benzo(b)fluoranther	ne	205-99-2	0.13	J	0.040	10
10728	Benzo(g,h,i)peryler	ne	191-24-2	0.069	J	0.040	10
10728	Benzo(k)fluoranther	ne	207-08-9	0.11	J	0.040	10
10728	1,1'-Biphenyl		92-52-4	5.3		0.20	10
10728	Di-n-butylphthalate	9	84-74-2	N.D.		0.79	10
10728	Chrysene		218-01-9	0.32		0.040	10
10728	Dibenz(a,h)anthrace	ene	53-70-3	N.D.		0.040	10
10728	Diethylphthalate		84-66-2	N.D.		0.79	10
10728	2,4-Dimethylphenol		105-67-9	N.D.		0.20	10
10728	2,4-Dinitrophenol		51-28-5	N.D.		3.6	10
10728	bis(2-Ethylhexyl)ph	nthalate	117-81-7	N.D.		0.79	10
10728	Fluoranthene		206-44-0	0.35		0.040	10
10728	Fluorene		86-73-7	2.6		0.040	10
10728	Indeno (1,2,3-cd) pyr		193-39-5	0.051	J	0.040	10
10728	2-Methylnaphthalene	9	91-57-6	50		0.079	20
10728	2-Methylphenol		95-48-7	N.D.		0.20	10
10728	4-Methylphenol		106-44-5	N.D.		0.20	10
	3-Methylphenol and chromatographic cor for 4-methylphenol	nditions u	sed for sample ana	alysis. T	he result repo	rted	
10728	4-Nitrophenol	=	100-02-7	N.D.	-	2.0	10
10728	Phenanthrene		85-01-8	6.1		0.040	10
10728	Phenol		108-95-2	N.D.		0.20	10
10728	Pyrene		129-00-0	2.3		0.040	10
10728	Pyridine		110-86-1	N.D.		0.79	10
10728	Quinoline		91-22-5	N.D.		0.40	10
Pesti	cides/PCBs	SW-846	8011	mg/kg		mg/kg	
	Ethylene dibromide		106-93-4	N.D.		0.00024	1
m1	zonij zono dzazomiado			22.	1	- · · · · · -	

13214 Ethylene dibromide 106-93-4 N.D. The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC \sim



Analysis Report

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Sample Description: MH386-8-2' Grab Soil

MH386 Tank Sampling

LL Sample # SW 8235350 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016 14:10 by D Stantec

1060 Andrew Drive

Suite 140

Reported: 03/21/2016 09:50 West Chester PA 19380

1MH05 SDG#: MHI05-01

Submitted: 02/08/2016 14:32

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor				
The time	Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.								
Metal	s	SW-846 6010B	mg/kg	mg/kg					
06952	Cobalt	7440-48-4	6.93	0.0759	1				
06955	Lead	7439-92-1	15.2	0.384	1				
06961	Nickel	7440-02-0	11.9	0.215	1				
06971	Vanadium	7440-62-2	43.7	0.215	1				
06972	Zinc	7440-66-6	46.8	0.721	1				
Wet C	hemistry	SM 2540 G-1997	8	%					
00111	Moisture	n.a.	16.6	0.50	1				
	Moisture renrese	ate the lose in weight of the	gample after oven	drying at					

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Tria	l# Batch#	Analysis Date and Ti	ma	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 82	260B 1	0160411AA	02/10/2016		Anita M Dale	36.76
10237	VOCs- Solid by 8260B	SW-846 82		Q160411AA Q160421AA	02/11/2016	11:17	Anita M Dale	367.65
	-			~				
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 50	035A I	201603939989	02/05/2016	14:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 50	035A 1	201603939989	02/05/2016	14:10	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 50	035A 2	201603939989	02/05/2016	14:10	Client Supplied	1
10728	Skinner 8270 (microwave)	SW-846 82	270C 1	16041SLB026	02/16/2016	07:23	Linda M Hartenstine	10
10728	Skinner 8270 (microwave)	SW-846 82	270C 1	16041SLB026	02/16/2016	12:01	Linda M Hartenstine	20
10812	BNA Soil Microwave Skinner	SW-846 35	546 1	16041SLB026	02/10/2016	18:30	Sally L Appleyard	1
13214	8011 Soil Master	SW-846 80	011 1	160480011A	02/24/2016	00:52	Heather M Miller	1
13218	EDB Soil Extraction	SW-846 80	011 1	160480011A	02/17/2016	20:35	David V Hershey Jr	1
06952	Cobalt	SW-846 60	010B 1	160405708001	02/11/2016	14:29	Eric L Eby	1
06955	Lead	SW-846 60	010B 1	160405708001	02/11/2016	14:29	Eric L Eby	1
06961	Nickel	SW-846 60	010B 1	160405708001	02/11/2016	14:29	Eric L Eby	1
06971	Vanadium	SW-846 60	010B 1	160405708001	02/11/2016	14:29	Eric L Eby	1
06972	Zinc	SW-846 60	010B 1	160405708001		14:29	Eric L Eby	1



Analysis Report

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Sample Description: MH386-8-2' Grab Soil

MH386 Tank Sampling

LL Sample # SW 8235350 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016 14:10 by D

1060 Andrew Drive

Suite 140

Stantec

Submitted: 02/08/2016 14:32

West Chester PA 19380 Reported: 03/21/2016 09:50

1MH05 SDG#: MHI05-01

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	160405708001	02/10/2016 08:00	Lisa J Cooke	1
00111	Moisture	SM 2540 G-1997	1	16041820003A	02/10/2016 18:07	Scott W Freisher	1



Analysis Report

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Sample Description: MH386-9-1' Grab Soil

MH386 Tank Sampling

LL Sample # SW 8235351 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016 13:35 by D Stantec

1060 Andrew Drive

Suite 140

Reported: 03/21/2016 09:50 West Chester PA 19380

2MH05 SDG#: MHI05-02

Submitted: 02/08/2016 14:32

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	mg/kg		mg/kg	
10237	Benzene		71-43-2	0.45		0.019	32.77
10237	sec-Butylbenzene		135-98-8	0.050	J	0.038	32.77
10237	tert-Butylbenzene		98-06-6	N.D.		0.038	32.77
10237	Cyclohexane		110-82-7	1.5		0.038	32.77
10237	1,2-Dichloroethane		107-06-2	N.D.		0.038	32.77
10237	Ethylbenzene		100-41-4	N.D.		0.038	32.77
10237	n-Hexane		110-54-3	0.098	J	0.038	32.77
10237	Isopropylbenzene		98-82-8	0.077	J	0.038	32.77
10237	Methyl Tertiary But	yl Ether	1634-04-4	0.12	J	0.019	32.77
10237	Naphthalene	-	91-20-3	0.80		0.038	32.77
10237	Toluene		108-88-3	N.D.		0.038	32.77
10237	1,2,4-Trimethylbenz	zene	95-63-6	0.32		0.038	32.77
10237	1,3,5-Trimethylbenz		108-67-8	0.10	J	0.038	32.77
10237	Xylene (Total)		1330-20-7	0.19	J	0.038	32.77
GC/MS	Semivolatiles	SW-846	8270C	mg/kg		mg/kg	
10728	Acenaphthene		83-32-9	0.25		0.0039	1
10728	Anthracene		120-12-7	0.19		0.0039	1
10728	Benzo(a)anthracene		56-55-3	0.085		0.0039	1
10728	Benzo(a)pyrene		50-32-8	0.047		0.0039	1
10728	Benzo(b)fluoranther	ne	205-99-2	0.034		0.0039	1
10728	Benzo(g,h,i)peryler	ne	191-24-2	0.037		0.0039	1
10728	Benzo(k)fluoranther	ne	207-08-9	0.014	J	0.0039	1
10728	1,1'-Biphenyl		92-52-4	0.18		0.019	1
10728	Di-n-butylphthalate	9	84-74-2	N.D.		0.077	1
10728	Chrysene		218-01-9	0.19		0.0039	1
10728	Dibenz(a,h)anthrace	ene	53-70-3	0.013	J	0.0039	1
10728	Diethylphthalate		84-66-2	N.D.		0.077	1
10728	2,4-Dimethylphenol		105-67-9	N.D.		0.019	1
10728	2,4-Dinitrophenol		51-28-5	N.D.		0.35	1
10728	bis(2-Ethylhexyl)ph	nthalate	117-81-7	N.D.		0.077	1
10728	Fluoranthene		206-44-0	0.090		0.0039	1
10728	Fluorene		86-73-7	0.46		0.0039	1
10728	Indeno(1,2,3-cd)pyr		193-39-5	0.017	J	0.0039	1
10728	2-Methylnaphthalene	9	91-57-6	0.29		0.0039	1
10728	2-Methylphenol		95-48-7	N.D.		0.019	1
10728	4-Methylphenol		106-44-5	N.D.		0.019	1
	3-Methylphenol and chromatographic cor for 4-methylphenol	nditions u	sed for sample and	alysis. T	he result report	ed	
10728	4-Nitrophenol		100-02-7	N.D.		0.19	1
10728	Phenanthrene		85-01-8	0.68		0.0039	1
10728	Phenol		108-95-2	N.D.		0.019	1
10728	Pyrene		129-00-0	0.63		0.0039	1
10728	Pyridine		110-86-1	N.D.		0.077	1
10728	Quinoline		91-22-5	N.D.		0.039	1
Pesti	cides/PCBs	SW-846	8011	mg/kg		mg/kg	
13214	Ethylene dibromide		106-93-4	N.D.		0.00022	1
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13214 Ethylene dibromide 106-93-4 N.D. The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC $^{\circ}$



Analysis Report

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Sample Description: MH386-9-1' Grab Soil

MH386 Tank Sampling

LL Sample # SW 8235351 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016 13:35 by D Stantec

1060 Andrew Drive

Suite 140

Reported: 03/21/2016 09:50 West Chester PA 19380

2MH05 SDG#: MHI05-02

Submitted: 02/08/2016 14:32

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor				
The time	Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.								
Metal	s SW-846 60	10B	mg/kg	mg/kg					
06952	Cobalt	7440-48-4	5.98	0.0720	1				
06955	Lead	7439-92-1	15.3	0.364	1				
06961	Nickel	7440-02-0	13.1	0.204	1				
06971	Vanadium	7440-62-2	17.5	0.204	1				
06972	Zinc	7440-66-6	43.5	0.684	1				
Wet C	hemistry SM 2540 G	-1997	8	%					
00111	Moisture	n.a.	14.1	0.50	1				
	Moisture represents the loss in	weight of the s	sample after oven drying at						

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q160411AA	02/10/2016	15:17	Anita M Dale	32.77
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201603939989	02/05/2016	13:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	1	201603939989	02/05/2016	13:35	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035A	2	201603939989	02/05/2016	13:35	Client Supplied	1
10728	Skinner 8270 (microwave)	SW-846 8270C	1	16041SLB026	02/16/2016	04:55	William H Saadeh	1
10812	BNA Soil Microwave Skinner	SW-846 3546	1	16041SLB026	02/10/2016	18:30	Sally L Appleyard	1
13214	8011 Soil Master	SW-846 8011	1	160480011A	02/24/2016	01:07	Heather M Miller	1
13218	EDB Soil Extraction	SW-846 8011	1	160480011A	02/17/2016	20:35	David V Hershey Jr	1
06952	Cobalt	SW-846 6010B	1	160405708001	02/11/2016	14:33	Eric L Eby	1
06955	Lead	SW-846 6010B	1	160405708001	02/11/2016	14:33	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	160405708001	02/11/2016	14:33	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	160405708001	02/11/2016	14:33	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	160405708001	02/11/2016	14:33	Eric L Eby	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	160405708001	02/10/2016	08:00	Lisa J Cooke	1
00111	Moisture	SM 2540 G-1997	1	16041820003A	02/10/2016	18:07	Scott W Freisher	1



Analysis Report

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Sample Description: TB-20160205 Water

MH386 Tank Sampling

LL Sample # WW 8235352 LL Group # 1629807 Account # 16657

Project Name: MH386 Tank Sampling

Collected: 02/05/2016

Stantec

1060 Andrew Drive

Suite 140

Submitted: 02/08/2016 14:32 Reported: 03/21/2016 09:50

West Chester PA 19380

3MH05 SDG#: MHI05-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles SW-846	8260B	ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Cyclohexane	110-82-7	N.D.	2	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	n-Hexane	110-54-3	N.D.	2	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 VOCs	SW-846 8260B	1	L160411AA	02/10/2016 11:56	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L160411AA	02/10/2016 11:56	Brett W Kenyon	1



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	mg/kg	mg/kg
Batch number: Q160411AA Benzene sec-Butylbenzene tert-Butylbenzene Cyclohexane 1,2-Dichloroethane Ethylbenzene n-Hexane Isopropylbenzene Methyl Tertiary Butyl Ether Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Xylene (Total)	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	: 8235350-8235351 0.025 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050
Batch number: Q160421AA Naphthalene	Sample number(s) N.D. ug/1	: 8235350 0.050 ug/l
Batch number: L160411AA Benzene sec-Butylbenzene tert-Butylbenzene Cyclohexane 1,2-Dichloroethane Ethylbenzene n-Hexane Isopropylbenzene Methyl Tertiary Butyl Ether Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Xylene (Total)	Sample number(s) N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	: 8235352 0.5 1 1 2 0.5 0.5 2 1 0.5 0.5 1 0.5 0.5 0.5
Batch number: 16041SLB026 Acenaphthene Anthracene Benzo(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene Benzo(g,h,i) perylene Benzo(k) fluoranthene	Sample number(s) N.D. N.D. N.D. N.D. N.D. N.D. N.D.	: 8235350-8235351 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Report

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Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

Analysis Name	Result	MDL
	mg/kg	mg/kg
1,1'-Biphenyl	N.D.	0.017
Di-n-butylphthalate	N.D.	0.067
Chrysene	N.D.	0.0033
Dibenz(a,h)anthracene	N.D.	0.0033
Diethylphthalate	N.D.	0.067
2,4-Dimethylphenol	N.D.	0.017
2,4-Dinitrophenol	N.D.	0.30
bis(2-Ethylhexyl)phthalate	N.D.	0.067
Fluoranthene	N.D.	0.0033
Fluorene	N.D.	0.0033
Indeno(1,2,3-cd)pyrene	N.D.	0.0033
2-Methylnaphthalene	N.D.	0.0033
2-Methylphenol	N.D.	0.017
4-Methylphenol	N.D.	0.017
4-Nitrophenol	N.D.	0.17
Phenanthrene	N.D.	0.0033
Phenol	N.D.	0.017
Pyrene	N.D.	0.0033
Pyridine	N.D.	0.067
Quinoline	N.D.	0.033
Batch number: 160480011A	Sample number(s):	8235350-8235351
Ethylene dibromide	N.D.	0.00020
Batch number: 160405708001	Sample number(s):	8235350-8235351
Cobalt	N.D.	0.0810
Lead	N.D.	0.410
Nickel	N.D.	0.230
Vanadium	N.D.	0.230
Zinc	N.D.	0.770

LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Q160411AA	Sample numbe	r(s): 8235	350-8235351						
Benzene	1.00	1.10	1.00	1.08	110	108	80-120	2	30
sec-Butylbenzene	1.00	0.965	1.00	0.957	97	96	69-120	1	30
tert-Butylbenzene	1.00	0.988	1.00	0.996	99	100	75-120	1	30
Cyclohexane	1.00	0.981	1.00	1.07	98	107	58-120	8	30
1,2-Dichloroethane	1.00	1.15	1.00	1.17	115	117	77-130	2	30
Ethylbenzene	1.00	1.01	1.00	1.00	101	100	80-120	1	30
n-Hexane	1.00	0.858	1.00	1.13	86	113	44-120	27	30
Isopropylbenzene	1.00	1.01	1.00	0.984	101	98	76-120	2	30
Methyl Tertiary Butyl Ether	1.00	1.15	1.00	1.14	115	114	72-120	2	30
Naphthalene	1.00	0.898	1.00	0.913	90	91	53-120	2	30
Toluene	1.00	1.04	1.00	1.00	104	100	80-120	4	30
1,2,4-Trimethylbenzene	1.00	0.999	1.00	0.978	100	98	74-120	2	30
1,3,5-Trimethylbenzene	1.00	1.00	1.00	0.966	100	97	73-120	4	30
Xylene (Total)	3.00	2.99	3.00	3.00	100	100	80-120	0	30

Batch number: Q160421AA Sample number(s): 8235350

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	1.00	0.922	1.00	0.947	92	95	53-120	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: L160411AA	Sample numbe	r(s): 8235	352						
Benzene	20	19.31	20	19.43	97	97	78-120	1	30
sec-Butylbenzene	20	17.95	20	17.99	90	90	75-120	0	30
tert-Butylbenzene	20	17.21	20	17.45	86	87	74-121	1	30
Cyclohexane	20	18.05	20	17.62	90	88	60-129	2	30
1,2-Dichloroethane	20	19.58	20	19.81	98	99	72-127	1	30
Ethylbenzene	20	17.77	20	17.95	89	90	78-120	1	30
n-Hexane	20	18.41	20	18.39	92	92	52-145	0	30
Isopropylbenzene	20	18.12	20	18.24	91	91	80-120	1	30
Methyl Tertiary Butyl Ether	20	18.93	20	19.36	95	97	75-120	2	30
Toluene	20	17.91	20	17.97	90	90	80-120	0	30
1,2,4-Trimethylbenzene	20	17.78	20	17.76	89	89	75-120	0	30
1,3,5-Trimethylbenzene	20	17.61	20	17.82	88	89	80-120	1	30
Xylene (Total)	60	53.37	60	53.72	89	90	80-120	1	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16041SLB026	Sample numbe	r(s): 8235	350-8235351						
Acenaphthene	1.67	1.63			98		83-116		
Anthracene	1.67	1.68			101		82-118		
Benzo(a)anthracene	1.67	1.51			91		76-119		
Benzo(a)pyrene	1.67	1.67			100		85-117		
Benzo(b)fluoranthene	1.67	1.64			99		78-129		
Benzo(g,h,i)perylene	1.67	1.68			101		77-118		
Benzo(k)fluoranthene	1.67	1.79			107		79-120		
1,1'-Biphenyl	1.67	1.50			90		76-111		
Di-n-butylphthalate	1.67	1.65			99		84-120		
Chrysene	1.67	1.57			94		80-121		
Dibenz(a,h)anthracene	1.67	1.69			101		81-123		
Diethylphthalate	1.67	1.63			98		81-118		
2,4-Dimethylphenol	1.67	1.57			94		83-120		
2,4-Dinitrophenol	3.33	1.71			51		16-132		
bis(2-Ethylhexyl)phthalate	1.67	1.58			95		81-121		
Fluoranthene	1.67	1.58			95		81-117		
Fluorene	1.67	1.70			102		86-118		
Indeno(1,2,3-cd)pyrene	1.67	1.66			100		81-118		
2-Methylnaphthalene	1.67	1.65			99		83-109		
2-Methylphenol	1.67	1.83			110		80-133		
4-Methylphenol	1.67	1.91			115		73-125		
4-Nitrophenol	1.67	1.45			87		52-133		
Phenanthrene	1.67	1.57			94		80-114		
Phenol	1.67	1.73			104		73-122		
Pyrene	1.67	1.59			95		81-114		
Pyridine	1.67	1.50			90		55-109		
Quinoline	1.67	1.77			106		80-119		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 160480011A	Sample numbe		350-8235351						
Ethylene dibromide	0.00450	0.00177			39*		60-140		

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 160405708001	Sample numbe	r(s): 8235	350-8235351						
Cobalt	50	52.27			105		80-120		
Lead	15	15.81			105		80-120		
Nickel	50	52.31			105		80-120		
Vanadium	50	51.8			104		80-120		
Zinc	50	51.64			103		80-120		
	%	%	%	%					
Batch number: 16041820003A	Sample numbe	r(s): 8235	350-8235351						
Moisture	89.5	89.43			100		99-101		

MS/MSD

 ${\tt Unspiked} \ \ ({\tt UNSPK}) \ = \ {\tt the} \ \ {\tt sample} \ \ {\tt used} \ \ {\tt in} \ \ {\tt conjunction} \ \ {\tt with} \ \ {\tt the} \ \ {\tt matrix} \ \ {\tt spike}$

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Q160411AA	Sample numb	er(s): 8235	350-8235	351 UNSPK:	P236355					
Benzene	N.D.	0.972	0.891	1.04	1.01	92	97	80-120	12	30
sec-Butylbenzene	N.D.	0.972	0.771	1.04	0.879	79	85	69-120	13	30
tert-Butylbenzene	N.D.	0.972	0.768	1.04	0.899	79	87	75-120	16	30
Cyclohexane	N.D.	0.972	0.829	1.04	0.977	85	94	58-120	16	30
1,2-Dichloroethane	N.D.	0.972	0.955	1.04	1.08	98	104	77-130	12	30
Ethylbenzene	N.D.	0.972	0.819	1.04	0.939	84	90	80-120	14	30
n-Hexane	N.D.	0.972	0.785	1.04	0.944	81	91	44-120	18	30
Isopropylbenzene	N.D.	0.972	0.808	1.04	0.935	83	90	76-120	15	30
Methyl Tertiary Butyl Ether	N.D.	0.972	0.916	1.04	1.05	94	101	72-120	13	30
Naphthalene	N.D.	0.972	0.694	1.04	0.819	71	79	53-120	17	30
Toluene	N.D.	0.972	0.845	1.04	0.964	87	93	80-120	13	30
1,2,4-Trimethylbenzene	N.D.	0.972	0.794	1.04	0.893	82	86	74-120	12	30
1,3,5-Trimethylbenzene	N.D.	0.972	0.783	1.04	0.881	81	85	73-120	12	30
Xylene (Total)	N.D.	2.92	2.46	3.12	2.81	85	90	80-120	13	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16041SLB026	Sample numb	er(s): 8235	350-8235	351 UNSPK:	8235351					
Acenaphthene	0.214	1.66	1.80	1.65	1.85	96	99	83-116	2	30
Anthracene	0.159	1.66	1.72	1.65	1.71	94	94	82-118	0	30
Benzo(a)anthracene	0.0726	1.66	1.47	1.65	1.44	84	83	76-119	3	30
Benzo(a)pyrene	0.0407	1.66	1.56	1.65	1.53	92	90	85-117	2	30
Benzo(b)fluoranthene	0.0295	1.66	1.53	1.65	1.51	90	90	78-129	1	30
Benzo(q,h,i)perylene	0.0316	1.66	1.76	1.65	1.74	105	104	77-118	1	30
Benzo(k) fluoranthene	0.0122	1.66	1.54	1.65	1.55	92	93	79-120	1	30
1,1'-Biphenyl	0.153	1.66	1.71	1.65	1.67	94	92	76-111	2	30
Di-n-butylphthalate	N.D.	1.66	1.56	1.65	1.54	94	94	84-120	1	30
Chrysene	0.167	1.66	1.50	1.65	1.52	81	82	80-121	1	30
Dibenz(a,h)anthracene	0.0115	1.66	1.81	1.65	1.77	108	107	81-123	2	30
Diethylphthalate	N.D.	1.66	1.57	1.65	1.54	95	93	81-118	2	30
2,4-Dimethylphenol	N.D.	1.66	1.49	1.65	1.43	90	87	83-120	4	30
2,4-Dinitrophenol	N.D.	3.32	N.D.	3.30	N.D.	0*	0*	16-132	0	30
bis(2-Ethylhexyl)phthalate	N.D.	1.66	1.57	1.65	1.59	95	96	81-121	1	30

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



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Environmental

Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Fluoranthene	0.0771	1.66	1.38	1.65	1.36	79*	78*	81-117	1	30
Fluorene	0.397	1.66	1.77	1.65	1.78	83*	84*	86-118	0	30
Indeno(1,2,3-cd)pyrene	0.0148	1.66	1.72	1.65	1.69	103	101	81-118	2	30
2-Methylnaphthalene	0.248	1.66	1.70	1.65	1.66	87	86	83-109	2	30
2-Methylphenol	N.D.	1.66	1.58	1.65	1.68	96	102	80-133	6	30
4-Methylphenol	N.D.	1.66	1.66	1.65	1.69	100	103	73-125	2	30
4-Nitrophenol	N.D.	1.66	1.32	1.65	1.25	79	76	52-133	5	30
Phenanthrene	0.588	1.66	1.87	1.65	1.94	77*	82	80-114	4	30
Phenol	N.D.	1.66	1.47	1.65	1.53	89	93	73-122	4	30
Pyrene	0.545	1.66	1.75	1.65	1.77	72*	74*	81-114	1	30
Pyridine	N.D.	1.66	1.27	1.65	1.30	76	79	55-109	3	30
Quinoline	N.D.	1.66	1.55	1.65	1.51	93	92	80-119	2	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 160480011A	Sample numb	er(s): 823	5350-8235	351 UNSPK:	P239896					
Ethylene dibromide	N.D.	0.00441	0.00419	0.00428	0.00414	95	97	60-140	1	20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 160405708001	Sample numb	er(s): 823!	5350-8235	351 UNSPK:	P235854					
Cobalt	3.65	46.73	45.72	48.08	48.01	90	92	75-125	5	20
Lead	12.29	14.02	17.35	14.42	17.91	36*	39*	75-125	3	20
Nickel	10.23	46.73	51.12	48.08	53.3	88	90	75-125	4	20
Vanadium	14.05	46.73	63.4	48.08	65.54	106	107	75-125	3	20
Zinc	38.2	46.73	82.79	48.08	84.36	95	96	75-125	2	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/kg	mg/kg		
Batch number: 160405708001	Sample number(s):	8235350-8235351 BF	KG: P235854	
Cobalt	3.65	2.15	52* (1)	20
Lead	12.29	3.96	102* (1)	20
Nickel	10.23	7.31	33*	20
Vanadium	14.05	14.27	2	20
Zinc	38.2	36.62	4	20
	%	%		
Batch number: 16041820003A	Sample number(s):	8235350-8235351 BF	KG: P234114	
Moisture	7.50	7.36	2	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 VOCs Batch number: L160411AA

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: Stantec Group Number: 1629807

Reported: 03/21/2016 09:50

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8235352	102	104	98	98
Blank	103	104	94	100
LCS	100	102	97	101
LCSD	100	101	98	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: VOCs- Solid by 8260B

Batch number: Q160411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8235350	75	75	73	84
8235351	73	72	71	73
Blank	110	108	103	101
LCS	110	108	103	102
LCSD	110	111	103	101
MS	97	88	89	90
MSD	101	101	95	94
Limits:	50-141	54-135	52-141	50-131

Analysis Name: Skinner 8270 (microwave)

Batch number: 16041SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8235350	59	58	38	65	65	66
8235351	93	94	35	73	87	86
Blank	99	99	87	92	86	91
LCS	103	101	83	90	81	88
MS	93	95	58	91	92	86
MSD	97	99	65	88	91	85
Limits:	58-122	57-126	35-136	54-123	63-117	59-129

Analysis Name: 8011 Soil Master Batch number: 160480011A

1,1,2,2-Tetrachloroethane
116
116
100
63
117
107

Limits: 60-140

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Data Package Options (circle if required)

Type I (EPA Level 3

Equivalent/non-CLP)

Type III (Reduced non-CLP)

NYSDEC Category A or B

For Eurofins Lancaster Laboratories Environmental use only COC # 397465 Acct. # 16657 Group # 1629807 Sample # 8235356-52 **Lancaster Laboratories** Environmental **Analysis Requested** For Lab Use Only Client Information Matrix Preservation Codes Acct. #: SCR#: Ground Surface PWSID #: **Preservation Codes** Sediment T=Thiosulfate H=HCI 6010/602 N=HNO₃ B=NaOH Containers S=H2SO4 O=Other 300 Quote #: Remarks NPDES Dubinski Potable & See attached list For Compliance: State where samples were collected: of analyses for soll sampling 3 Composite No 🗆 Total # of Yes Metals SVOCS X 00 Other: Water Collected Grab Sample Identification Soil L Date Time MH386-8-2' MH386-9-1' TB-20160205 2/5/16 X X × × DO NOT EUN TB BY BOIL Turnaround Time (TAT) Requested (please circle) 1400 Standard Rush (Rush TAT is subject to laboratory approval and surcharge.) 2/5/16 1536 6.30 Date results are needed: 2/8/16 1045 2.8.16 1045 E-mail address: __mark, shaefferestantec.com Received b

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

If yes, format: EQUI

Relinguished by

Type VI (Raw Data Only)

CT RCP

TX TRRP-13

MA MCP

EDD Required? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Site-Specific QC (MS/MSD/Dup)? Yes

14:32

Received by

Relinguished by Commercial Carrier:

FedEx ___

____ Other

Temperature upon receipt 6.3

2-8-16

16657 1629807 | 8235350-52

Comprehensive COC List for Evergreen Characterizations (August 2015)

VOCs by EPA Method 8260	CAS No.	SVOCs by EPA Method 8270	CAS No.
Benzene	71-43-2	Acenaphthene	83-32-9
Butylbenzene, sec-	135-98-8	Anthracene	120-12-7
Butylbenzene, tert-	98-06-6	Benzo(a)anthracene	56-55-3
Cumene	98-82-8	Benzo(a)pyrene	50-32-8
Cyclohexane	110-82-7	Benzo(b)fluroranthene	205-99-2
Dichloroethane, 1,2-	107-06-2	Benzo(g,h,i)perylene	191-24-2
Ethylbenzene	100-41-4	Benzo(k)fluoranthene	207-08-9
Ethylene Dibromide*	106-93-4	Biphenyl, 1,1-	92-52-4
Hexane	110-54-3	Bis(2-ethylhexyl) phthalate	117-81-7
Methyl tert butyl ether	1634-04-4	Chrysene	218-01-9
Toluene	108-88-3	Cresol, m- (3-methylphenol)	108-39-4
Trimethylbenzene, 1,2,4-	95-63-6	Cresol, o- (2-methylphenol)	95-48-7
Trimethylbenzene, 1,3,5-	108-67-8	Cresol, p- (4-methylphenol)	106-44-5
Xylenes	1330-20-7	Dibenz(a,h)anthracene	53-70-3
		Diethyl phthalate	84-66-2
		Dimethylphenol, 2,4-	105-67-9
		Dibutyl phthalate, n-	84-74-2
		Dinitrophenol, 2,4-	51-28-5
		Fluoranthene	206-44-0
Metals by Method 6010/6020	CAS No.	Fluorene	86-73-7
Cobalt ***	7440-48-4	Indeno(1,2,3-cd)pyrene	193-39-5
Lead***	7439-92-1	Methylnaphthalene, 2-	91-57-6
Nickel***	7440-02-0	Naphthalene**	91-20-3
Vanadium***	7440-62-2	Nitrophenol, 4-	100-02-7
Zinc***	7440-66-6	Phenanthrene	85-01-8
		Phenol	108-95-2
		Pyrene	129-00-0
		Pyridine	110-86-1
		Quinoline	91-22-5

^{*}Ethylene Dibromide should be analyzed by EPA Method 8011 instead of 8260 in soil for tank investigations and in all groundwater samples.

This list is generated from the PADEP SERO Crude Oil Parameters for Corrective Action (CDB|SERO|PADEP|9 Aug 2013) combined with PADEP Short List of Petroleum Products (leaded and unleaded gasoline and No. 1, 2, 4, 5, 6 Fuel Oils).

^{**}Naphthalene should be analyzed by EPA Method 8260 instead of 8270 for tank investigations.

^{***}Metals analysis should be total in soil and dissolved in groundwater.



Sample Administration Receipt Documentation Log

Doc Log ID:

135638

Group Number(s): 1629607

Client: Stantec

Delivery and Receipt Information

Delivery Method:

ELLE Courier

Arrival Timestamp:

02/08/2016 14:32

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

PA

Arrival Condition Summary

Shipping Container Sealed:

No

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Sample Date/Times match COC:

No

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

No

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

HCI

4

Samples Intact: Missing Samples: Yes No

Trip Blank Type: Air Quality Samples Present:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Katherine Metzger (2241) at 14:39 on 02/08/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Thermometer ID

Corrected Temp

Therm. Type

Ice Type Ice Present? Ice Container

Elevated Temp?

DT121

0.3

DT

Wet

Sample Date/Time Discrepancy Details

Bagged

Ν

Sample ID on COC

Date/Time on Label

Comments

MH386-8-2'

2/05/2016 14:10

MH386-8-2'

2/05/2016 13:35



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basisResults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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